US ERA ARCHIVE DOCUMENT

# ATES ENVIRONMENTAL PROTEC. AGENCY

SUBJECT: PP#6G1871 - Chlorothalonil (Daconil) in citrus at

0.5 ppm; proposal for a tolerance

DATE:

NOV 18 1976

FROM:

David L. Ritter

TOX/RD WH-567

E 1006P11/0/76

TO:

D. Stubbs

WH-567 SRS/RD

and

CHM/RD WH-567

Diamond Shamrock Cleveland, Ohio

The toxicity of daconil has been defined for tolerance purposes and tolerances have been established for residues in racs pursuant to 40 CFR 180.275.

I recommended favorably for tolerances in my review of PP#61749/6E1761, 7/15/76, on the basis that we had a chronic NEL of 60 ppm in dogs and that there were no TOX data deficiencies at that time.

# Recommendation:

We recommend that the proposed tolerance for residues of chlorothalonil be established, CHM considerations permitting. The tolerance may be set to include the 4-OH metabolite if needed.

We defer the question of secondary residues in meat, eggs and milk to CHM.

Early and season vi	i Hid- arieties	1/2 to 2 (1/2 te 2 1 (1 1b a1)	Quarti plus lbs at plus	lease /500 gal.) /4 to 1 ) 1 to 2	plus plus /500 gallo	1/8 to 1/2 1/4 Act1-A1d	
season Vi	i Hid- irleties	1/2 to 2 (1/2 te 2	Quarts plus lbs at	lease /500 gal.) /4 to 1 ) 1 to 2	plus plus	1/8 to 1/2 1/4 Act1-A1d	
season Vi	i Hid- irleties	1/2 to 2 (1/2 te 2	Quarts plus lbs at	/500 gal.)	plus	Acti-Aid  1/8 to 1/2	
	i Hid- erieties	1/2 to 2	(Quart	lease /500 gal.)	*	Acti-Aid	
		Sweep	1	lease		below.) Acti-Aid	
	•				(See note	below.)	
	Applies tomore an						
	Read and fr	ollow all	label d	irections i Florida on	or SWEEP, oranges f	RELEASE or processing.	
2.3	Specific Use Directions						
2.2	Sweep alone does not cause abscission. Sweep exerts a synergistic effect when used with Release and/or Acti-Aid.						
2.1	Do not reuse empty container. Bury it or triple rinse and incinerate it.						
2.0	Directions					.*	
	677-313 677-EUP 1F1024	6/22/ 3/04/ 5/04/		7/76			
1.4	Other envir	omental	reviews	:			
1.3	Citrus frui	ts as an	absciss	ion aid.			
*	LELCONS W.F		ai bs ai/gi	llon	*		
.2	Percent Act	A AAM					
.1	Bravo, Daco		urf			•	

	(Quarts/500 gallons)				
Early and Midseason Varieties	1	plus	3/4 to 1-1/4		
Yalencia	(1 lb. ai)	plus	2 to 2-1/2		

\*Note: Important considerations for maximum fruit loosening:

- A. Apply all treatments with 2 quarts of Ortho X-77 per 500 gallons.
- 8. Use SMEEP with the lower concentrations of the indicated rate range of abscission chemical(s) when temperatures are above 50°F with early and midseason varieties and during the early and late part of the Valencia harvest. Also use when harvesting by hand or with shaker-catch frame or limb shaker mechanical harvesting.
- C. Use SMEEP with the higher concentrations of the indicated rate range of abscission chemical(s) when temperatures are below 50°F, and during the middle of the Valencia harvest when fruit are less responsive to abscission chamicals. Also use when air harvesting or harvesting when preharvest fruit drop is desirable.
- D. Keep the ratio of quarts of ACTI-AID (Component A) to quarts of SMEEP at 1 to 4 when the two are used in combination with RELEASE for maximum fruit loosening.

# 2.4 Application Volume and Equipment

Make application 4 to 7 days prior to anticipated harvest. Apply 500-1000 gallons per acre with equipment that has been properly calibrated and nozzles properly arranged to obtain uniform fruit coverage. Coverage of leaves and fruit is important for maximum effectiveness, especially in the tops of tall trees. Gallonage per tree varies from 5 to 10 gallons depending on tree shape, size, foliage and spacing.

#### 2.5 When to Harvest

Fruit will begin to loosen two to three days after application. The desired fruit removal force of about 6 pounds or less will be reached 4 to 7 days after application depending on the variety and the environmental conditions. More rapid loosening is obtained under high temperature and humidity conditions.

## 2.6 General Use Precautions

#### DO NOT APPLY:

- 1. On fresh market oranges.
- When rain is predicted within 24 hours, although a light, misty rain 6 to 8 hours after application should not greatly reduce effectiveness.
- 3. On trees following heavy dew until the moisture has dried from the fruit and leaves.
- 4. Within 2 weeks following a freeze.
- 5. In wind conditions that favor drift.
- 6. In combination with ACTI-AID alone on Valencias.
- 7. More than once per season.

Trees under stress conditions such as drought, insect or disease infestations, etc., product more ethylene in the absence of abscission chemical treatment. Application of abscission chemicals containing SMEEP to trees under stress may cause additional leaf drop.

### 3.0 Summary

12/2014

For an experimental use permit, only hydrolysis and aerobic soil metabolism studies are needed. There is adequate data on file to concur with the proposed use under the EUP.

4.0 Recommendations

We concur with the proposed use under the EUP.

Renty 10/26/26

Ronald E. Ney, Jr. 10/14/76 Hancy Dodd 10/14/76 Environmental Chemistry Section Efficacy and Ecological Effects Branch